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| PRE-APPEAL BRIEF REQUEST FOR REVIEW | | Bocket Number (Optional) AMDP758US | |
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| in an envelope addressed to 'Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450' [37 CFR 1.8(a)] | 10/653,826 | | September 3, 2003 |
| onJuly 13, 2007 | First Named Inventor | | |
| Signature/Christine Gillroy/ | Siaw-Kang Lei et al. | | |
| | Art Unit | 3 | xaminar |
| Typed or printed. Christine Gillroy name | 2193 | *************************************** | fan V. Mai |
| Applicant requests review of the final rejection in the above with this request. This request is being filed with a notice of appeal. | | | • |
| The review is requested for the reason(s) stated on the alta Note: No more than five (5) pages may be provided | | ł· | |
| am the | | | |
| applicant/inventor. | , | /Thomas G. Eschweiler/ | |
| assigned of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is engiosed. (Form PTO/SB/96) | Signature Thomas G, Eschweller | | |
| | Typed or printed name | | |
| attorney or agent of record. Registration number | | (216) 502-0600 | |
| | Telephone number | | |
| attorney or agent assing under 37 CFR 1,34 | | July 13, 2007 | |
| Registration number if acting under 37 CFR 4.34 | | Dgie | |
| NOTE: Signatures of all the inventors or assignees of record of the entire Submit multiple forms if more than one signature is required, see below'. | interest or their | representative(s) a | e required. |
| *Total of forms are submitted. | | | |

This collection of information is required by 35 U.S.C. 132. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentially to governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the instriction case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this tenden, should be sent to the Chief information Officer, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. OO NOT SEND PEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO, Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT application of:

Applicant:

Siaw-Kang Lai et al.

Application No.:

10/653,826

For:

FAST ADD ROTATE ADD OPERATION

Filing Date:

September 03, 2003

Examiner:

Tan V. Mai

Art Unit:

2193

PRE-APPEAL BRIEF REQUEST FOR REVIEW

Mail Stop AF Assistant Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Favorable reconsideration of the above-identified application is respectfully requested in view of the following amendments and remarks.

REMARKS

Claims 1-22 are pending. Applicant acknowledges with appreciation the allowance of claims 1-20. Reconsideration of the rejection of claims 21-22 is respectfully requested based on the following remarks.

I. REJECTION OF CLAIMS 21 and 22 UNDER 35 U.S.C. § 101

Claims 21 and 22 were rejected under 35 U.S.C. § 101 as being directed to nonstatutory subject matter. Withdrawal of the rejection is respectfully requested for at least the following reasons.

In maintaining the rejection of claims 21-22 under Section 101, the Office Action of March 13, 2007, states that no information has been provided to show how the claims produce a useful, concrete and tangible result. More particularly, the Action states that while the claims appear to provide something concrete and tangible, the useful result is lacking.

Under the Section 101 Examination guidelines, a "useful result" is directed to satisfying the utility requirement, that requires utility to be (i) specific, (ii) substantial, and (iii) credible. MPEP § 2107 (II). Upon evaluation of the guidelines, there appears to be no requirement that the claim itself recite a useful result, but instead that the final result provided or achieved by the claims at issue be useful. It is respectfully submitted that the final result provided by claims 21 and 22 is useful, in that the result is data constituting the result of data processing that may be employed in subsequent operations, for example, in security processing such as encryption or decryption.

More particularly, claim 21 recites a method of performing a fast add rotate add operation using an add rotate adder. The exemplary arrangement is discussed and described in the present invention, wherein the useful, concrete and tangible result of the method is provided in the preamble (fast add rotate add operation) and in the last method step which recites performing a rotation operation (e.g., 1310 of Fig. 13) on the output result of the carry select propagating adder (e.g., 1314) according to the shift control signal (e.g., CS) and outputting the rotated result (e.g., OUT 1315) thereof.

Clearly, the output of an add rotate add operation is a value that is useful as an output result, and/or as an input in further data operations. This result of the add rotate add operation is clearly (i) specific, (ii) substantial, and (iii) credible, and the Office Action has provided no detail or justification as to how or why the result does not meet the requirements of a "useful result."

In particular, the <u>practical application</u> of this **fast add rotate add outputted result** of the method of claim 21, when viewed in the context of the present invention, is described in the specification on page 50, line 30 thru page 51 line 2, for example, describing that during information (data) packet processing and destination address decoding, for example, <u>it will be appreciated that the IPsec module 124, and more particularly the RX IPsec processor 150, EX IPsec processor 174a and TX IPsec processor 174b, may implement add, rotate, add (ARA) operations, such as in executing HMAC-MD5-95 algorithms, for example.</u>

This <u>practical application</u> of this improved or **fast add rotate add outputted result** is further <u>contrasted</u> to a prior method in the specification on page 51, lines 24
27, for example, stating that the typical ARA function method <u>requires the two</u>

<u>summation steps to be performed separately, which can cause processing to take</u>

<u>longer than desired, particularly when many calculation have to be performed,</u>

<u>such as where large amounts of data are transmitted and/or received, for example,</u>

By contrast to prior slower methods, the <u>practical application</u> of this **fast add rotate add outputted result** of the method of claim 21, in the context of Fig. 13, is also stated in the specification on page 51, line 30 thru page 52 line 2, for example, stating that of the ARA function: <u>In particular, the arrangement (e.g., 1300 of Fig. 13) is operable to execute an ARA (such as that described above with respect to Fig. 12), but where multiple summation steps in a critical path are combined into a single operation, thus mitigating the computational time and resources necessary to complete the ARA operation. In this manner, at least one carry propagation (CPA) latency is saved in the ARA operation as compared to conventional systems.

Accordingly, withdrawal of the rejection is respectfully requested.</u>

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Claim 22 depends from independent claim 21 now believed to be in condition for

allowance. Accordingly, withdrawal of the rejection is respectfully requested.

II. CONCLUSION

For at least the above reasons, the claims currently under consideration are

believed to be in condition for allowance.

Should the Pre-appeal brief conference board feel that a telephone interview

would be helpful to facilitate favorable prosecution of the above-identified application.

the Examiner is invited to contact the undersigned at the telephone number provided

below.

Should any fees be due as a result of the filing of this response, the

Commissioner is hereby authorized to charge the Deposit Account Number 01-0365,

AMDP758US

Respectfully submitted,

ESCHWEILER & ASSOCIATES, LLC

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